



## INVESTIGATOR'S ANNUAL REPORT

United States Department of the Interior  
National Park Service

All or some of the information you provide may become available to the public.

OMB # (1024-0236)  
Exp. Date (11/30/2010)  
Form No. (10-226)

<b>Reporting Year:</b> 2009	<b>Park:</b> Shenandoah NP	<b>Select the type of permit this report addresses:</b> Scientific Study													
<b>Name of principal investigator or responsible official:</b> William McShea		<b>Office Phone:</b> 540 635 6563													
<b>Mailing address:</b> Conservation and research  Center  1500 Remont Road Front Royal, VA 22630 US		<b>Office FAX</b> 540 635 6506 <b>Office Email</b> mcsheaw@si.edu													
<b>Additional investigators or key field assistants (first name, last name, office phone, office email)</b> <table border="0"><tr><td><b>Name:</b> Laura Belleville</td><td><b>Phone:</b> 540-953-3564</td><td><b>Email:</b> lbelleville@appalachiantrail.org</td></tr><tr><td><b>Name:</b> James A. Comiskey</td><td><b>Phone:</b> 540-654-5328</td><td><b>Email:</b> jim_comiskey@nps.gov</td></tr><tr><td><b>Name:</b> Patrick Campbell</td><td><b>Phone:</b> 202-342-1443</td><td><b>Email:</b> j_patrick_campbell@nps.gov</td></tr><tr><td><b>Name:</b> Peter Erb</td><td><b>Phone:</b> 540-660-2983</td><td><b>Email:</b> erbp@si.edu</td></tr></table>				<b>Name:</b> Laura Belleville	<b>Phone:</b> 540-953-3564	<b>Email:</b> lbelleville@appalachiantrail.org	<b>Name:</b> James A. Comiskey	<b>Phone:</b> 540-654-5328	<b>Email:</b> jim_comiskey@nps.gov	<b>Name:</b> Patrick Campbell	<b>Phone:</b> 202-342-1443	<b>Email:</b> j_patrick_campbell@nps.gov	<b>Name:</b> Peter Erb	<b>Phone:</b> 540-660-2983	<b>Email:</b> erbp@si.edu
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<b>Project Title (maximum 300 characters):</b> Pilot Project for Carnivore Survey Along Appalachian Trail															
<b>Park-assigned Study or Activity #:</b> SHEN-00332	<b>Park-assigned Permit #:</b> SHEN-2008-SCI-0005	<b>Permit Start Date:</b> Apr 01, 2008	<b>Permit Expiration Date:</b> Mar 31, 2009												
<b>Scientific Study Starting Date:</b> Mar 09, 2007		<b>Estimated Scientific Study Ending Date:</b> Nov 28, 2010													
<b>For either a Scientific Study or a Science Education Activity, the status is:</b>  Continuing		<b>For a Scientific Study that is completed, please check each of the following that applies:</b>  <input type="checkbox"/> A final report has been provided to the park or will be provided to the park within the next two years  <input type="checkbox"/> Copies of field notes, data files, photos, or other study records, as agreed, have been provided to the park  <input type="checkbox"/> All collected and retained specimens have been cataloged into the NPS catalog system and NPS has processed loan agreements as needed													
<b>Activity Type:</b> Monitoring															
<b>Subject/Discipline:</b> Mammals															

### Purpose of Scientific Study or Science Education Activity during the reporting year (maximum 4000 characters):

The purpose of this study is to develop a protocol for monitoring predator species along the Appalachian Trail. We conducted the survey from April-November 2009 along the AT in the Shenandoah National Park. The survey used infra-red trip-cameras to photograph wildlife species at specific points along the trail. The majority of sites were surveyed by volunteers. The digital pictures were shared between the volunteers, the agencies, and the scientists.

**Findings and status of Scientific Study or accomplishments of Science Education Activity during the reporting year (maximum 4000 characters):**

During 2009 we sampled 15 locations in Shenandoah National Park with data from 10 sites used in further analysis. The trip camera was left at each point for one month between April and November. Of the 10 sites in the park, we photographed at least 10 species, which included the following (the number of detection points in parentheses): Ursus americanus American black bear (6), Lynx rufus Eastern bobcat (1), Canis latrans Eastern coyote (2), Canis lupus familiaris Domestic dog (1), Procyon lotor Raccoon (2), Spilogale putorius Spotted skunk (1), Odocoileus virginianus White-tailed deer (9), Sciurus carolinensis Gray squirrel (2), Sylvilagus sp. Rabbit (1), and Meleagris gallopavo Eastern Wild Turkey (1).

**For Scientific Studies (not Science Education Activities), were any specimens collected and removed from the park but not destroyed during analysis?**

No

**Funding specifically used in this park this reporting year that was provided by NPS (enter dollar amount):**

\$0

**Funding specifically used in this park this reporting year that was provided by all other sources (enter dollar amount):**

\$315

**List any other U.S. Government Agencies supporting this study or activity and the funding each provided this reporting year:**

**Paperwork Reduction Act Statement:** A federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Public reporting for this collection of information is estimated to average 1.625 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms. Direct comments regarding this burden estimate or any aspect of this form to Dr. John G. Dennis, Natural Resources (3127 MIB), National Park Service, 1849 C Street, N.W., Washington, DC 20240.